In the Claims

1.-22. (Cancelled)

23. (New) A method for manufacturing an induction hardened member comprising the step of:

hot working a steel consisting of C: 0.35-0.7%, Si: 0.30-1.1%, Mn: 0.2-2.0%, Al: 0.005-0.25%, Ti: 0.005-0.1%, Mo: 0.05-0.6%, B: 0.0003-0.006%, S: 0.06% or less, P: 0.02% or less, Cr: 0.2% or less, by mass, and a balance of Fe and inevitable impurities;

cooling the hot worked steel at a cooling rate of at least 0.2°C/s, thereby manufacturing a steel product having a structure of bainite and/or martensite, the total volume fraction of bainite and martensite being 10% or more;

subjecting the steel product to induction hardening at least once, wherein the heating temperature of the final induction hardening is 800-950°C,

wherein the thickness of a hardened layer formed on the surface of the steel product by induction hardening is 2 mm or more, and the prior austenite grain size of the hardened layer is 12 µm or less through the thickness of the hardened layer.

- 24. (New) The method according to Claim 23, wherein the steel subject to the hot working further comprising at least one selected from the group consisting of Cu: 1.0% or less, Ni: 3.5% or less, Co: 1.0% or less, Nb: 0.1% or less, and V: 0.5% or less, by mass.
- 25. (New) The method according to Claim 23, wherein the heating temperature of all the induction hardenings is 800-1000°C and the heating temperature of the final induction hardening is 800-950°C.
- 26. (New) The method according to Claim 24, wherein the heating temperature of all the induction hardenings is 800-1000°C and the heating temperature of the final induction hardening is 800-950°C.

- 27. (New) The method for manufacturing an induction hardened member according to Claim 23, wherein the heating time of the final induction hardening is 5 seconds or less.
- 28. (New) The method for manufacturing an induction hardened member according to Claim 24, wherein the heating time of the final induction hardening is 5 seconds or less.
- 29. (New) The method for manufacturing an induction hardened member according to Claim 25, wherein the heating time of all the induction hardenings is 5 seconds or less.
- 30. (New) The method for manufacturing an induction hardened member according to Claim 26, wherein the heating time of all the induction hardenings is 5 seconds or less.